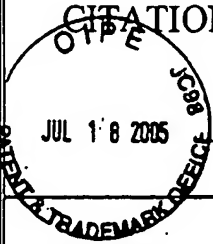


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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION  | | | | ATTY. DOCKET NO. 043888-0267 | | SERIAL NO. 10/629,815 | |
| | | | | APPLICANT Tsutomu OHZUKU, et al. | | | |
| | | | | FILING DATE July 30, 2003 | | GROUP 1745 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| CL | | US 5,160,712 | 11/03/1992 | Thackeray et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Foreign Patent Document Country Codes - Number - Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | | Pages, Columns, Lines Where Relevant Figures Appear | Translation Yes No |
| CL | | JP 10-310433 | 11/24/1998 | ISE KAGAKU KOGYO KK | | | JAPAN (w/ English Abstract) |
| CL | | JP 05-242891 | 09/21/1993 | SANYO ELECTRIC CO LTD | | Corresponds to JP 3244314 | English Abstract Only |
| CL | | JP 06-072708 | 03/15/1994 | TECHNOL FINANCE CORP PTY LTD | | Counterpart of USP 5,160,712 | JAPAN (w/ English Abstract) |
| CL | | JP 2547992 | 10/30/1996 | ----- | | Corresponds to JP 63-121258 | X |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | | |
| CL | | Ohzuku, T. et al., "Electrochemistry and Structural Chemistry of LiNiO ₂ (R3m) for 4 Volt Secondary Lithium Cells" J. Electrochem. Soc., July 1993, Vol. 140, No. 7 pp. 1862-1870. | | | | | |
| CL | | Spahr, M. et al. "Characterization of Layered Lithium Nickel Manganese Oxides Synthesized by a Novel Oxidative Coprecipitation Method and Their Electrochemical Performance as Lithium Insertion Electrode Materials" J. Electrochem. Soc., April 1998, Vol. 145, No. 4, pp. 1113-1120. | | | | | |
| CL | | Kanno, R. et al., "Structure and Physical Properties in Cathode Materials for Lithium Secondary cells -Lithium Nickel Oxides and Lithium Manganese Oxides" Department of Chemistry, Faculty of Science, Kobe University, announced on December 7, 1998, pp. 85-95.(Partial translation attached) | | | | | |
| CL | | Arai, H. et al., "Electrochemical and Thermal Behavior of LiNi _{1-x} M _x O ₂ (M = Co, Mn, Ti)" J. Electrochem. Soc., September 1997, Vol 144, No. 9, pp. 3117-3125. | | | | | |
| CL | | B.J. Neudecker et al., "Lithium Manganese Nickel Oxides Li _x (Mn _y Ni _{1-y}) _{2-x} O ₂ ", J. Electrochem. Soc., Vol. 145, No. 12, December 1998, pp4148-4159 | | | | | |
| CL | | E. Rossen et al., "Structure and electrochemistry of Li _x Mn _y Ni _{1-y} O ₂ ", Solid State Ionics 57(1992) pp311-318 | | | | | |
| EXAMINER /Cynthia Lee/ | | | | DATE CONSIDERED 05/11/2006 | | | |

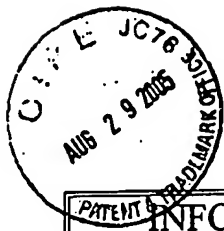
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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| <div>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</div> <div>(PTO-1449)</div> | | ATTY. DOCKET NO. 043888-0267 | | SERIAL NO. 10/629,815 | | | |
| | | APPLICANT Tsutomu OHZUKU, et al. | | | | | |
| | | FILING DATE July 30, 2003 | | GROUP 1745 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Document Number Number-Kind Code(s) (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Foreign Patent Document Country Codes -Number &-Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines Where Relevant Figures Appear | Translation Yes No | |
| CL | | JP 11-307094 with English - abstract | 11/05/1999 | Chuo Denki Kogyo Co., Ltd. | | | |
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| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | | |
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| EXAMINER /Cynthia Lee/ | | | | DATE CONSIDERED 05/11/2006 | | | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

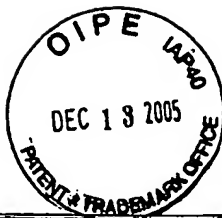
1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.



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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449) | | | | ATTY. DOCKET NO. 043888-0267 | | SERIAL NO. 10/629,815 | |
| | | | | APPLICANT Tsutomu OHZUKU, et al. | | | |
| | | | | FILING DATE July 30, 2003 | | GROUP 1745 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Document Number Number-Kind Code(s) (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| CL | | US 5,160,712 | 11/03/1992 | Thackeray et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Foreign Patent Document Country Codes - Number & - Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | | Pages, Columns, Lines Where Relevant Figures Appear | Translation Yes No |
| CL | | JP 10-310433 | 11/24/1998 | ISE KAGAKU KOGYO KK | | | JAPAN (w/ English Abstract) |
| CL | | JP 05-242891 | 09/21/1993 | SANYO ELECTRIC CO LTD | | Corresponds to JP 3244314 | English Abstract Only |
| CL | | JP 06-072708 | 03/15/1994 | TECHNOL FINANCE CORP PTY LTD | | Counterpart of USP 5,160,712 | JAPAN (w/ English Abstract) |
| CL | | JP 2547992 | 10/30/1996 | ----- | | Corresponds to JP 63-121258 English abstract | English Abstract |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | | |
| CL | | Ohzuku, T. et al., "Electrochemistry and Structural Chemistry of LiNiO_2 (R3m) for 4 Volt Secondary Lithium Cells" J. Electrochem. Soc., July 1993, Vol. 140, No. 7 pp. 1862-1870. | | | | | |
| CL | | Spahr, M. et al. "Characterization of Layered Lithium Nickel Manganese Oxides Synthesized by a Novel Oxidative Coprecipitation Method and Their Electrochemical Performance as Lithium Insertion Electrode Materials" J. Electrochem. Soc., April 1998, Vol. 145, No. 4, pp. 1113-1120. | | | | | |
| CL | | Kanno, R. et al., "Structure and Physical Properties in Cathode Materials for Lithium Secondary cells -Lithium Nickel Oxides and Lithium Manganese Oxides" Department of Chemistry, Faculty of Science, Kobe University, announced on December 7, 1998, pp. 85-95.(Partial translation attached) | | | | | |
| CL | | Aral, H. et al., "Electrochemical and Thermal Behavior of $\text{LiNi}_{1-x}\text{M}_x\text{O}_2$ (M = Co, Mn, Ti)" J. Electrochem. Soc., September 1997, Vol 144, No. 9, pp. 3117-3125. | | | | | |
| CL | | B.J. Neudecker et al., "Lithium Manganese Nickel Oxides $\text{Li}_x(\text{Mn}, \text{Ni}_{1-y})_{2-x}\text{O}_2$ ", J. Electrochem. Soc., Vol. 145, No. 12, December 1998, pp4148-4159 | | | | | |
| CL | | E. Rossen et al., "Structure and electrochemistry of $\text{Li}_x\text{Mn}_y\text{Ni}_{1-y}\text{O}_2$ ", Solid State Ionics 57(1992) pp311-318 | | | | | |
| EXAMINER /Cynthia Lee/ | | | | DATE CONSIDERED 05/11/2006 | | | |

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INFORMATION DISCLOSURE
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ATTY. DOCKET NO.
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10/629,815APPLICANT
Tsutomu OHZUKU, et al.FILING DATE
July 30, 2003GROUP
1745

U.S. PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | Document Number Number-Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------------|-------------|---|--------------------------------|--|---|
| | | US | | | |
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FOREIGN PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | Foreign Patent Document Country Codes-Number-Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines Where Relevant Figures Appear | Translation | |
|------------------------|-------------|--|--------------------------------|--|--|----------------------------------|----|
| | | | | | | Yes | No |
| CL | | EP 0 554 906 A1 | 08/11/1993 | MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. | | X | |
| | | JP 9-129229 A | 05/16/1997 | mitsui MINING & SMELTING CO LTD. | | JAPAN (w/English Abstract) | |
| | | JP 6-96768 | 04/08/1994 | MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. | | JAPAN (w/English Abstract) | |
| | | JP 2000-182618 A | 06/30/2000 | SAMSUNG SDI CO LTD. | | JAPAN (w/English Abstract) | |
| | | JP 2001-23640 A | 01/26/2001 | SEIMI CHEM CO LTD. | | JAPAN (w/English Abstract) | |
| | | JP 2001-185145 A | 07/08/2001 | NIKKO MATERIAL CO LTD. | | JAPAN (w/English Abstract) | |
| | | JP 08-213015 A | 08/20/1996 | SONY CORP. | | JAPAN (w/English Translation) | |
| CL | | JP 2000-268874 A | 09/29/2000 | | | JAPAN (w/English Abstract) | |

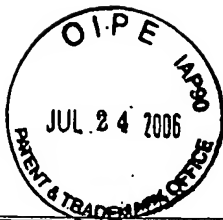
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
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SHEET 1 OF 1

INFORMATION DISCLOSURE
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APPLICATION

(PTO-1449)

ATTY. DOCKET NO.
043888-0267SERIAL NO.
10/629,815APPLICANT
Tsutomu OHZUKU, et al.FILING DATE
July 30, 2003GROUP
1745

U.S. PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | Document Number Number-Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|---------------------|----------|---|--------------------------------|---|---|
| CL | | US 5,738,957 | 04/14/1998 | Amine et al. | |
| CL | 82 | US 6,964,828 | 11/15/2005 | Lu et al. | |
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FOREIGN PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | Foreign Patent Document Country Codes - Number - Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines Where Relevant Figures Appear | Translation Yes No |
|---------------------|----------|--|--------------------------------|--|---|-----------------------|
| CL | A | JP 11001323 | 01/06/1999 | Sakai Chem Ind. Co. Ltd. | With English abstract | |
| CL | | JP 11071115 | 03/16/1999 | Tosoh Corp. | English abstract | |
| CL | | JP 2000149842 | 05/30/2000 | Toyota Central Res & Dev Lab Inc. | English abstract | |
| CL | A2 | EP 1 073 136 | 01/31/2001 | NGK Insulators, Ltd | | |
| CL | A1 | EP 1 026 765 | 08/09/2000 | NGK Insulators, Ltd. | | |
| CL | A1 | EP 0 630 084 | 12/21/1994 | Fuji Photo Film Co., Ltd. | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|---------------------|----------|---|
| CL | | Tabuchi M et al., "Electrochemical and magnetic properties of lithium manganese oxide spinels prepared by oxidation at low temperature of hydrothermally obtained LiMnO ₂ ", vol. 89, no. 1-2, 1 August 1996, pages 53-63, XP004070124 |
| | | Search Report dated may 30, 2006 |
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EXAMINER
/Cynthia Lee/DATE CONSIDERED
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| INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449) | | | | ATTY. DOCKET NO. 43888-267 | | SERIAL NO. | |
|---|-------------|---|--------------------------------|--|---|-------------|----|
| | | | | APPLICANT Tsutomu OHZUKU, et al. | | | |
| | | | | FILING DATE July 30, 2003 | | GROUP | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | | |
| CL ↓ CL | ✓ | US 5,393,622 | 02/28/1995 | NITTA, et al. | | | |
| | ✓ | US 5,370,948 | 12/06/1994 | HASEGAWA, et al. | | | |
| | ✓ | US 5,264,201 | 11/23/1993 | DAHN, et al. | | | |
| | ✓ | US 5,629,110 | 05/13/1997 | KOBAYASHI, et al. | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Foreign Patent Document Country Codes - Number - Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines Where Relevant Figures Appear | Translation | |
| CL ↓ CL | ✓ | JP 2002-42813 | 02/08/2002 | KOTSUKI, et al. | | Yes | No |
| | ✓ | JP 8-171910 | 07/02/1996 | YAMAURA, et al. | | abstract | |
| | ✓ | JP 9-129230 | 05/16/1997 | WATANABE, et al. | | abstract | |
| | ✓ | JP 10-69910 | 03/10/1998 | MATSUBARA, et al. | | abstract | |
| | ✓ | JP 2000-133262 | 05/12/2000 | NAKAJIMA, et al. | | abstract | |
| | ✓ | JP 7-37576 | 02/07/1995 | INOUE, et al. | | abstract | |
| | ✓ | JP 2000-323123 | 11/24/2000 | OSANAI, et al. | | abstract | |
| | ✓ | JP 2000-195514 | 07/14/2000 | FUJIWARA, et al. | | abstract | |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | | |
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| EXAMINER /Cynthia Lee/ | | | | DATE CONSIDERED 05/11/2006 | | | |

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